BOSTER BIOLOGICAL TECHNOLOGY
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Anti-XIAP Antibody Picoband®

Catalog Number: PA1512

About XIAP

BIRC4, baculoviral IAP repeat-containing protein 4 is also known as XIAP (X-linked inhibitor of apoptosis protein). The BIRC4 gene comprises 6 exons. This gene is mapped to chromosome Xq25. This gene encodes a protein that belongs to a family of apoptotic suppressor proteins. Members of this family share a conserved motif termed, baculovirus IAP repeat, which is necessary for their anti-apoptotic function. This protein functions through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2 and inhibits apoptosis induced by menadione, a potent inducer of free radicals, and interleukin 1-beta converting enzyme. This protein also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. Mutations in this gene are the cause of X-linked lymphoproliferative syndrome. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 2 and 11.

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Overview

Product Name	Anti-XIAP Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-XIAP Antibody catalog # PA1512. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P98170

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Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human XIAP, different from the related mouse sequence by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

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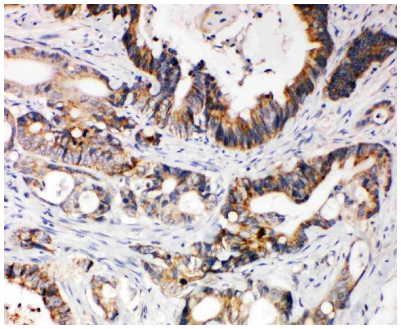
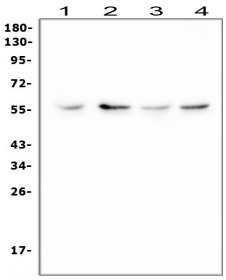
Anti-XIAP Antibody Picoband® (PA1512) Images



Anti-XIAP antibody, PA1512, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Western blot analysis of XIAP using anti-XIAP antibody (PA1512). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysate, Lane 2: human Raji whole cell lysate, Lane 3: rat C6 whole cell lysate, Lane 4: mouse Neuro-2a whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-XIAP antigen affinity purified polyclonal antibody (Catalog # PA1512) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for XIAP at approximately 57KD. The expected band size for XIAP is at 57KD.

4 Publications Citing This Product

1. PubMed ID: 23611778, Li G, Zhang S, Fang H, Yan B, Zhao Y, Feng L, Ma X, Ye X. Biochem Biophys Res Commun. 2013 May 17;434(4):809-14. Doi: 10.1016/J.Bbrc.2013.04.018. Epub 2013 Apr 20. Aspirin Overcomes Navitoclax-Resistance In Hepatocellular Carcinoma Cells Through S...

2. PubMed ID: 23391179, Wu L, Xi Z, Guo R, Liu S, Yang S, Liu D, Dong S, Guo D. Avian Pathol. 2013 Feb;42(1):32-7. Doi: 10.1080/03079457.2012.757289. Exogenous Arc Down-Regulates Caspase-3 Expression And Inhibits Apoptosis Of Broiler Chicken Cardiomyocytes Exposed To Hyd...

3. PubMed ID: 25878591, Chen Gg, Mao M, Qiu Lz, Liu Qm. Neural Regen Res. 2015 Mar;10(3):425-31. Doi: 10.4103/1673-5374.153691. Gene Transfection Mediated By Polyethyleneimine-Polyethylene Glycol Nanocarrier Prevents Cisplatin-Induced Spiral Ganglion Cell Damage.

Visit bosterbio.com/anti-xiap-antibody-pa1512-boster.html to see all 4 publications.

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